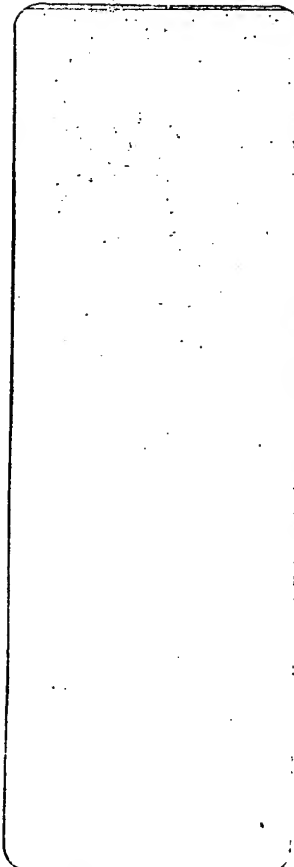Organization _____ IC2100 _____ Bldg Room RANDOLPH

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NOTICE OF ALLOWANCE AND FEE(S) DUE

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EXAMINER
SALL, EL HADJI MALICK

ART UNIT	PAPER NUMBER
2157	

DATE MAILED: 10/14/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,099	02/28/2002	Matthew Barrow	1761 4000-06400	2736

TITLE OF INVENTION: DYNAMICALLY UPDATEABLE PARAMETERS IN INTEGRATED SERVICES HUB

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$0	$0	$1510	01/14/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: <u>Mail</u>

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_____ (Depositor's name)

_____ (Signature)

_____ (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,099	02/28/2002	Matthew Barrow	1761 4000-06400	2736

TITLE OF INVENTION: DYNAMICALLY UPDATEABLE PARAMETERS IN INTEGRATED SERVICES HUB

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$0	$0	$1510	01/14/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
SALL, EL HADJI MALICK	2157	709-220000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE   (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

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4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

☐ A check is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.   ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER
SALL, EL HADJI MALICK

ART UNIT	PAPER NUMBER
2157	

DATE MAILED: 10/14/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1045 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1045 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

	Application No.	Applicant(s)
Notice of Allowability	10/086,099	BARROW ET AL.
	Examiner	Art Unit	
	EL HADJI M. SALL	2157	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *06/23/08*.

2. ☒ The allowed claim(s) is/are *1,2,6-12,14-16,19 and 20*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the

         International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

       1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

      Paper No./Mail Date _____.

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

/Ario Etienne/
Supervisory Patent Examiner, Art Unit 2157

	Application No.	Applicant(s)
Interview Summary	10/086,099	BARROW ET AL.
	Examiner	Art Unit
	EL HADJI M. SALL	2157

All participants (applicant, applicant's representative, PTO personnel):

(1) *EL HADJI M. SALL*.   (3)_____.

(2) *Rodney B. Carrol*.   (4)_____.

Date of Interview: *19 September 2008*.

Type: a)☒ Telephonic   b)☐ Video Conference
        c)☐ Personal [copy given to: 1)☐ applicant   2)☒ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes   e)☐ No.
        If Yes, brief description: _____.

Claim(s) discussed: _____.

Identification of prior art discussed: _____.

Agreement with respect to the claims f)☒ was reached.   g)☐ was not reached.   h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *Applicant' representative agreed to amend the claims to put the case in condition for allowance*.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

/El Hadji M Sall/
Examiner, Art Unit 2157

DETAILED ACTION

1.   This action is responsive to the amendment filed on June 23, 2008. Claims 3-5,

13 and 17-18 are cancelled. Claims 1 and 9-11, 14 and 19 are amended. Claims 1-2, 6-

12, 14-16 and 19-20 are pending. Claims 1-2, 6-12, 14-16 and 19-20 represent

dynamically updateable parameters in integrated services hub.

2.   **EXAMINER'S AMENDMENT**

       An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

       Rodney B. Carroll (Reg. #: 39,624), the attorney in record, gave authorization for

this Examiner's Amendment over the telephone during an interview. The claim

amendments are as follow:

AMENDMENTS TO THE CLAIMS

1.   (Previously Presented)   A method for updating configuration parameters in a

customer premises telecommunications hub comprising:

       receiving in a customer premises telecommunications hub a new configuration

file sent from a remote location;

identifying, by said customer premises telecommunications hub, parameters in the new configuration file which are different than existing operating parameters stored in said customer premises telecommunications hub;

determining, by said customer premises telecommunications hub, whether all of the parameters in the new configuration file which are different can be changed dynamically, and   updating all of the existing operating parameters stored in said customer premises telecommunications hub to the parameters in the new configuration file which are different without rebooting said customer premises telecommunications hub when all of the parameters in the new configuration file which are different can be dynamically changed,

wherein said customer premises telecommunications hub comprises a configuration update module and a plurality of other functional modules which use parameters contained in the new configuration file,

wherein said other functional modules register check and update function calls with said update module,

wherein said update module writes the new configuration file into flash memory and issues the check function call to each of the other functional modules,

wherein each of the other functional modules performs the check function by comparing–configuration file parameters in the new configuration file to its existing operating parameters, and notifying the update module whether the parameters which are different can be changed dynamically,

wherein said update module issues the update function call to each of the other functional modules when the update module is notified by all of the other functional modules that the parameters which are different can be changed dynamically, and

wherein each of the other functional modules performs the update function by reading the parameters which are different from the new configuration file and writing the read parameters to locally stored configuration file parameters which it uses.

2.   (Previously Presented)   A The method according to Claim 1, further comprising:

updating all of the existing operating parameters stored in said customer premises telecommunications hub to the parameters in the new configuration file which are different by rebooting the customer premises telecommunications hub when any of the parameters in the new configuration file which are different cannot be dynamically changed.

3-5.   (Canceled)

6.   (Original)   A The method according to Claim 1, wherein:

said step of updating parameters is performed when said customer premises telecommunications hub is in an idle state.

7.   (Original)   A The method according to Claim 1, wherein:

said new configuration file is received over a wide area network connection in

Internet protocol.

8.   (Original)   A The method according to Claim 1, wherein:

said new configuration file is received over a DSL connection to a server in a

central office.

9.   (Currently Amended)   A customer premises telecommunications hub,

comprising:

a wide area network connection for receiving Internet protocol messages,

a memory storing a configuration file,

a microprocessor having a plurality of functional program modules operating with

parameters contained in the configuration file, each of the functional modules locally

storing configuration file parameters which affect its operations and having a check

function and an update function, and

a configuration update module adapted to receive a new configuration file over

the wide area network connection while the microprocessor is in a running state, to

store the new configuration file in memory, and to call the check function and the update

function in each of the functional modules,

·wherein the check function for each of the functional modules determines

whether any parameters in the new configuration file which affect the functional module

have been changed, for each parameter that has been changed the check function

determines whether the parameter can be updated dynamically, and the check function

for each of the functional modules reports to the configuration update module whether

all of the parameters in the new configuration file which affect the functional module that

have been changed can be updated dynamically,

wherein the configuration update module calls the update function for each of the

functional modules when the configuration update module is reported to by all of the

functional modules that all of the parameters in the new configuration file which affect

the functional module that have been changed can be updated dynamically,

wherein each of the functional modules performs the update function without

rebooting the customer premises telecommunications hub by reading parameters in the

new configuration file which affect the functional module that have been changed from

the new configuration file and writing the read parameters to the locally stored

configuration file parameters which affect its operations.

10.   (Currently Amended)   A system for dynamically updating configuration file

parameters in a customer premises telecommunications hub comprising:

a remotely located configuration file server accessible over a wide area network

connection,

the configuration file server for storing configuration files,

means for receiving a new configuration file from said configuration file server

over a said area network connection while the customer premises telecommunications

hub is in a running state,

means, for each of a plurality of functional modules of the customer premises telecommunications hub, for comparing parameters controlling operation of the ~~customer premises telecommunications hub~~ functional module to parameters contained in the new configuration file and identifying parameters which are different,

means, for each of the plurality of functional modules of the customer premises telecommunications hub, for identifying whether the parameters which are different can be changed dynamically,

means, for each of the plurality of functional modules of the customer premises telecommunications hub, for reporting whether all of the parameters which are different can be changed dynamically,

means for, [[if]]when all of the plurality of functional modules of the customer premises telecommunications hub report that all of the parameters which are different can be changed dynamically, dynamically updating parameters controlling operation of each of the functional modules of the customer premises telecommunications hub to those contained in the new configuration file without rebooting the customer premises telecommunications hub,

wherein the means for dynamically updating parameters of each of the functional modules of the customer premises telecommunications hub includes means for reading parameters in the new configuration file that control operation of the functional module and that have been changed, and further includes means for writing the read parameters to locally stored parameters which are used by the functional module.

11.   (Currently Amended)   The system of Claim 10 further comprising:

means for, [[if]]when any of the plurality of functional modules of the customer

premises telecommunications hub report that any of the parameters which [[is]]are

different cannot be changed dynamically, causing the customer premises

telecommunications hub to reboot.

12.   (Previously Presented)   The system of Claim 10 further comprising:

means for dynamically updating parameters to those contained in the new

configuration file only when the customer premises telecommunications hub is in idle

state.

13. (Canceled)

14. (Currently Amended)   The customer premises telecommunications hub of claim

[[3]] The method according to Claim 1, wherein said update module issues a command

to reboot said customer premises telecommunications hub when any of the functional

modules notify the update module that not all of the parameters which are different can

be updated dynamically.

15. (Previously Presented) The customer premises telecommunications hub of claim

The method according to Claim 14, wherein said customer premises

telecommunications hub is delayed from rebooting until the customer premises

telecommunications hub is idle.

16. (Previously Presented) The customer premises telecommunications hub of claim 9, wherein the configuration update module sequentially calls the check function in each of the functional modules and sequentially receives the reports from the check function in each of the functional modules.

17-18. (Canceled)

19. (Currently Amended)   The customer premises telecommunications hub of claim [[16]]9, wherein the configuration update module issues a command to reboot the customer premises telecommunications hub when the configuration update module receives a report from the check function in any of the functional modules that indicates not all of the parameters that have been changed can be updated dynamically.

20. (Previously Presented) The customer premises telecommunications hub of claim 19, wherein the customer premises telecommunications hub is delayed from rebooting until the customer premises telecommunications hub is idle.

3.   *Allowable Subject Matter*

4.   Claims 1-2, 6-12, 14-16 and 19-20 are allowed.

5.   The following is an **Examiner's Statement of Reasons for Allowance**:

The prior art of record fails to teach or suggest individually or in combination the claimed limitations of "wherein each of the other functional modules performs the check function by comparing–configuration file parameters in the new configuration file to its existing operating parameters, and notifying the update module whether the parameters which are different can be changed dynamically, wherein said update module issues the update function call to each of the other functional modules when the update module is notified by all of the other functional modules that the parameters which are different can be changed dynamically, and wherein each of the other functional modules performs the update function by reading the parameters which are different from the new configuration file and writing the read parameters to locally stored configuration file parameters which it uses.".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6.   *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to El Hadji Sall whose telephone number is (571)272-4010.

The examiner can normally be reached on Monday - Friday 9:00am-6:00pm w/ first

Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-

8300. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/El Hadji M Sall/

Examiner, Art Unit 2157

/Ario Etienne/

Supervisory Patent Examiner, Art Unit 2157